

OHAL - Alii Beach Park, Haleiwa

Date first used	Alii Beach Park, Haleiwa OHAL		Survey Dates										
			8/11/94	1/26/95	9/14/95	3/10/96	8/22/96	3/2/97	8/6/97	12/29/97	7/21/98	1/28/99	7/9/99
8/11/94	RP#1	Parking lot island (toward bath)	RP1	GPS2	-	-	-	-	-	-	-	-	-
8/11/94	RP#2 *	Parking lot island (toward harbor)	RP2	GPS1	GPS1	GP1	-	-	-	-	-	-	-
8/11/94	RP#3	Nail at base of sign on jetty	RP3	RP3	RP3	-	-	-	-	-	-	-	-
8/11/94	RP#4 **	Center of 5 divots, E end rock wall	RP4	RP2	RP4	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP
8/11/94	RP#5	nail in branch of Hau tree	RP5	RP1	RP5	BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP
8/11/94	RP#6	Rock wall by steps	RP6	-	-	-	SRP	-	SRP	SRP	-	SRP	-
8/11/94	RP#7	Restroom	RP7	RP4	-	-	-	-	-	-	-	-	-
9/13/95	RP#8	"X" on jetty by sign	-	-	XO	SRP	-	SRP	SRP	SRP	SRP	-	SRP
	Start of line		WALL	pkg.lot	BRP.tree	swd.wall	swd.wall	base.BRP	base.BRP	base.BRP	base.BRP		
	Bearing		320°	-	-	317°	-	316°	331°	333°	332°		

* = new PK nail or other marker

LOCATION: At Alii Beach Park, on w side of harbor, just W of jetty protecting harbor in town of Haleiwa.

LINE-UP E end of low rock/mortar wall defining the back of the beach, and the stadia rod on the BRP

- RP#1 Northern corner of island on west end of parking lot.
- RP#2 West corner of island on east end of parking lot.
- RP#3 Nail 10cm landward of base of warning sign on jetty.
- RP#4 Center of 5 chips on top of NE end of rockwall in cement.
- RP#5 SWD facing nail at 0.5m up of SWD-most Hau tree (in clump of 4) 9m LNDWD of rock wall. 9/95 nail was covered by foliage
- RP#6 Center of 5 chips 2cm from SE corner of rockwall on west side of stairs leading to the beach.
- RP#7 Nail in crack of restroom concrete slab at alcove of Mensroom, NE entrance
- RP#8 Center of deeply engraved "X" on flat rock on jetty landward of landward-most yellow warning sign
- GPS1 HAL2: RP2 - Parking lot island (toward harbor)
- GPS2 HAL1: RP1 - Parking lot island (toward bath)

NOTES:

- 1/16/95 GPS Survey GPS#1 online in seaward parking lot. GPS#1-1 slightly off GPS#1. GPS#2 undefined. GPS#2-1 associated with this point but slightly off.
- 7/9/99 No reference to RP numbers for FRP and BRP

GPS Positiior	Longitude	Latitude	Elevation (meters above local tidal datum)
HAL1	-158.10701	21.593737	3.087
HAL2	-158.106537	21.594027	2.987

- * Primary GPS for elevation control; RP2/GPS1 = 2.987
- ** Primary reference point; RP4/FRP = 4.421

~1.54 m discrepancy between GPS surveyed points and EDM surveyed points. Potential problem.
HAL2/RP2 used because it is closer to OHAL 1-1 than HAL2